

**WHAT IS CLAIMED IS:**

- 1                    1.        A pre-cast polyacrylamide slab gel for use in slab gel electrophoresis,  
2        said pre-cast gel comprising:  
3                    a pair of chemically inert, transparent plates with inner surfaces coated with a  
4        nonionic amphiphilic polymer, and  
5                    a polyacrylamide gel cast between said plates.
- 2                    2.        A pre-cast polyacrylamide slab gel in accordance with claim 1 in  
      which said nonionic amphiphilic polymer is polyvinyl alcohol.
- 2                    3.        A pre-cast polyacrylamide slab gel in accordance with claim 1 in  
      which said nonionic amphiphilic polymer is polyethylene glycol.
- 2                    4.        A pre-cast polyacrylamide slab gel in accordance with claim 1 in  
      which said plates are glass.
- 2                    5.        A pre-cast polyacrylamide slab gel in accordance with claim 1 in  
      which said plates are plastic.
- 2                    6.        A pre-cast polyacrylamide slab gel in accordance with claim 1 in  
      which said plates are polystyrene-acrylonitrile blend.
- 3                    7.        A pre-cast polyacrylamide slab gel in accordance with claim 1 further  
      comprising a coating of polyvinylidene chloride between said plate and said coating of  
      nonionic amphiphilic polymer.

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